

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/802,682A

Source: IFW/6

Date Processed by STIC: 5/18/05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 05/18/2005

PATENT APPLICATION: US/10/802,682A

TIME: 15:53:52

Input Set : A:\109700DIVofficeactionSeq.ST25.txt

Output Set: N:\CRF4\05182005\J802682A.raw

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3 <110> APPLICANT: Asakura, Akira
4     Hoshino, Tatsuo
5     Ojima, Setsuko
6     Shinjoh, Masako
7     Tomiyama, Noribumi
9 <120> TITLE OF INVENTION: Novel Alcohol/Aldehyde Dehydrogenases
11 <130> FILE REFERENCE: C38435/109700CON
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/802,682A
C--> 14 <141> CURRENT FILING DATE: 2004-03-17
16 <150> PRIOR APPLICATION NUMBER: US 08/934,506
17 <151> PRIOR FILING DATE: 1997-09-19
19 <160> NUMBER OF SEQ ID NOS: 16
21 <170> SOFTWARE: PatentIn version 3.3
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25 <212> TYPE: DNA
26 <213> ORGANISM: Gluconobacter oxydans
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91 &lt;213&gt; ORGANISM: Gluconobacter oxydans

93 &lt;400&gt; SEQUENCE: 2

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304 35 40 45
307 Glu Asn Tyr Arg His Ser Pro Leu Thr Gln Ile Thr Thr Glu Asn Val
308 50 55 60
311 Gly Gln Leu Gln Leu Val Trp Ala Arg Gly Met Gln Pro Gly Lys Val
312 65 70 75 80
315 Gln Val Thr Pro Leu Ile His Asp Gly Val Met Tyr Leu Ala Asn Pro
316 85 90 95
319 Gly Asp Val Ile Gln Ala Ile Asp Ala Lys Thr Gly Asp Leu Ile Trp
320 100 105 110
323 Glu His Arg Arg Gln Leu Pro Asn Ile Ala Thr Leu Asn Ser Phe Gly
324 115 120 125
327 Glu Pro Thr Arg Gly Met Ala Leu Tyr Gly Thr Asn Val Tyr Phe Val
328 130 135 140
331 Ser Trp Asp Asn His Leu Val Ala Leu Asp Thr Ala Thr Gly Gln Val
332 145 150 155 160
335 Thr Phe Asp Val Asp Arg Gly Gln Gly Glu Asp Met Val Ser Asn Ser
336 165 170 175
339 Ser Gly Pro Ile Val Ala Asn Gly Val Ile Val Ala Gly Ser Thr Cys
340 180 185 190
343 Gln Tyr Ser Pro Phe Gly Cys Phe Val Ser Gly His Asp Ser Ala Thr
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348 210 215 220
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368          290          295          300
371 Asp Gln Glu Cys Thr Phe Glu Met Met Val Thr Asn Val Asp Val Gln
372 305          310          315          320
375 Pro Ser Thr Glu Met Glu Gly Leu Gln Ser Ile Asn Pro Asn Ala Ala
376          325          330          335
379 Thr Gly Glu Arg Arg Val Leu Thr Gly Val Pro Cys Lys Thr Gly Thr
380          340          345          350
383 Met Trp Gln Phe Asp Ala Glu Thr Gly Glu Phe Leu Trp Ala Arg Asp
384          355          360          365
387 Thr Asn Tyr Gln Asn Met Ile Glu Ser Ile Asp Glu Asn Gly Ile Val
388          370          375          380
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395 Val Cys Pro Thr Phe Leu Gly Gly Arg Asp Trp Pro Ser Ala Ala Leu
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399 Asn Pro Asp Ser Gly Ile Tyr Phe Ile Pro Leu Asn Asn Val Cys Tyr
400          420          425          430
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404          435          440          445
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408          450          455          460
411 Ile Asp Ala Ile Asp Ile Ser Thr Gly Arg Thr Leu Trp Ser Val Glu
412 465          470          475          480
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416          485          490          495
419 Leu Phe Asn Gly Gly Thr Asp Arg Tyr Phe Arg Ala Leu Ser Gln Glu
420          500          505          510
423 Thr Gly Glu Thr Leu Trp Gln Thr Arg Leu Ala Thr Val Ala Ser Gly
424          515          520          525
427 Gln Ala Ile Ser Tyr Glu Val Asp Gly Met Gln Tyr Val Ala Ile Ala
428          530          535          540
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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date